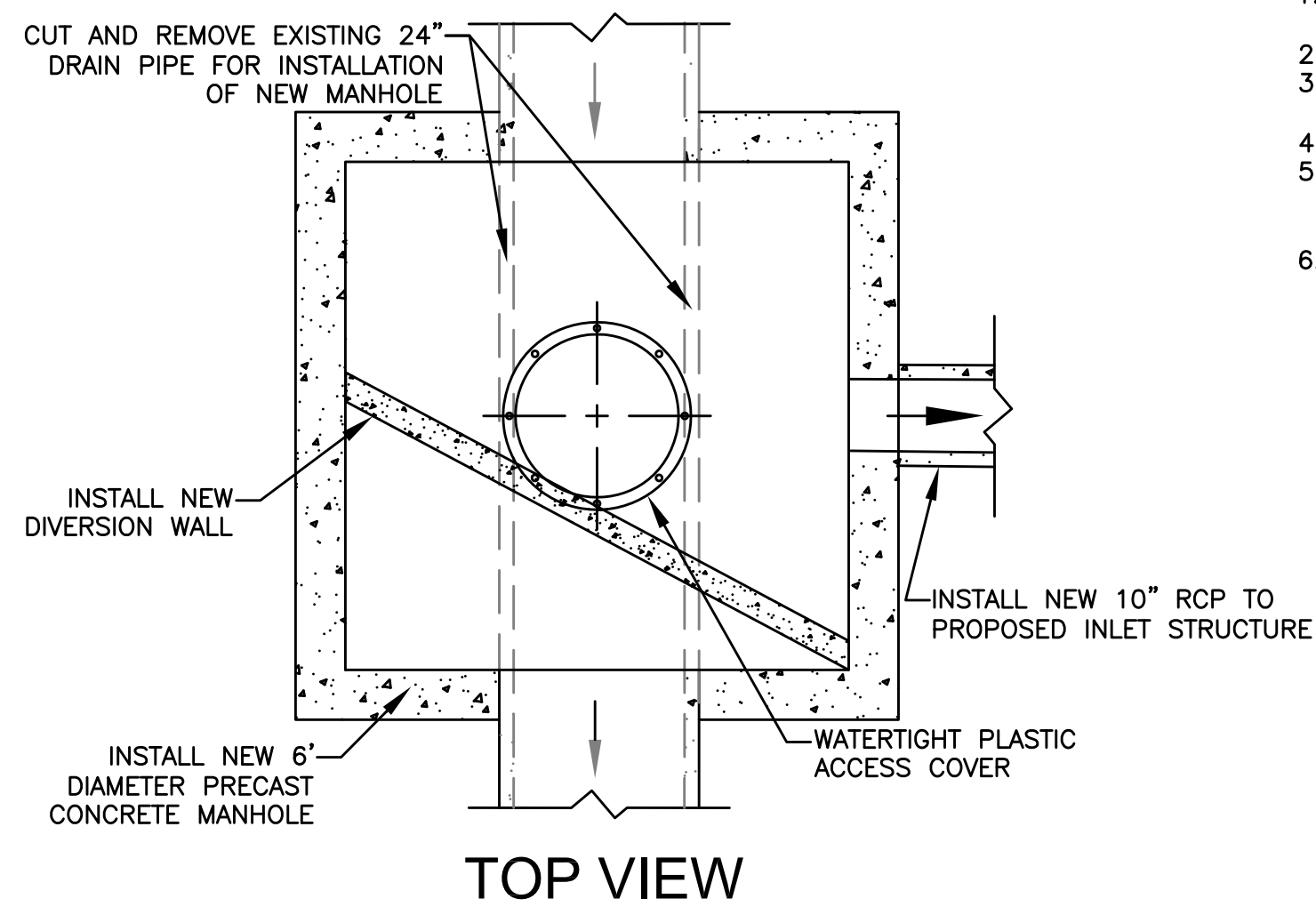
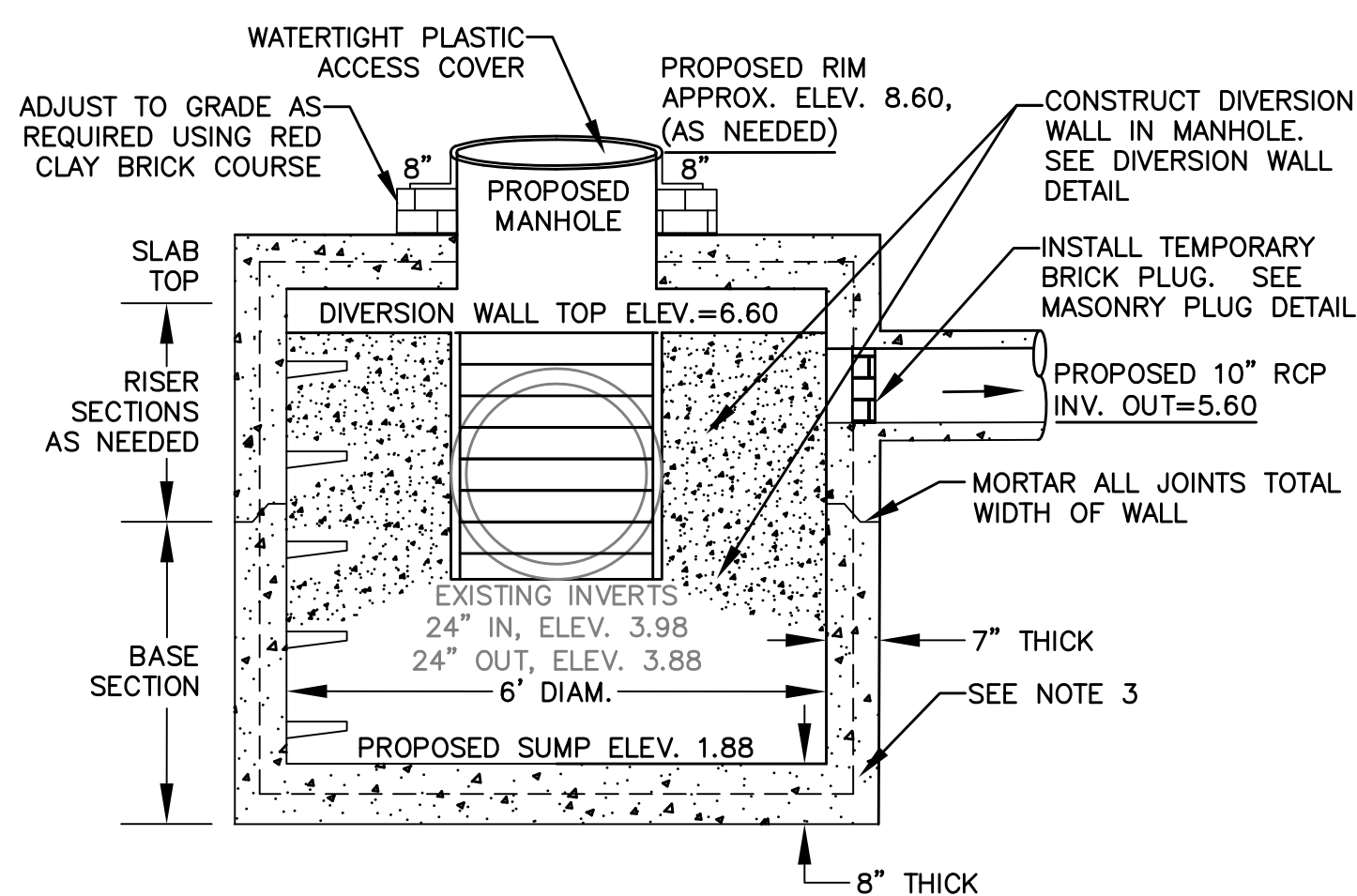


BMP OVERFLOW DETAILS



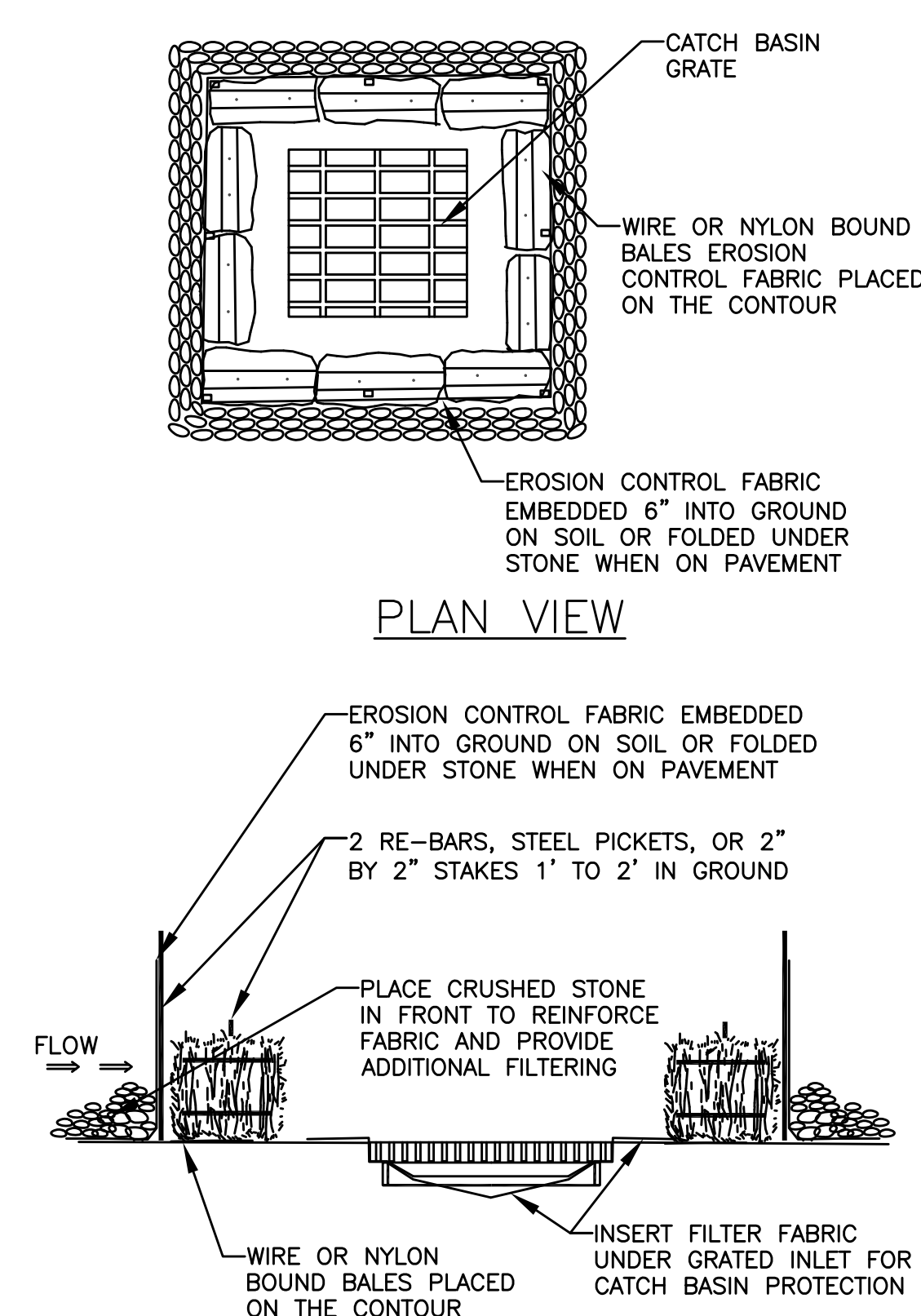
TOP VIEW



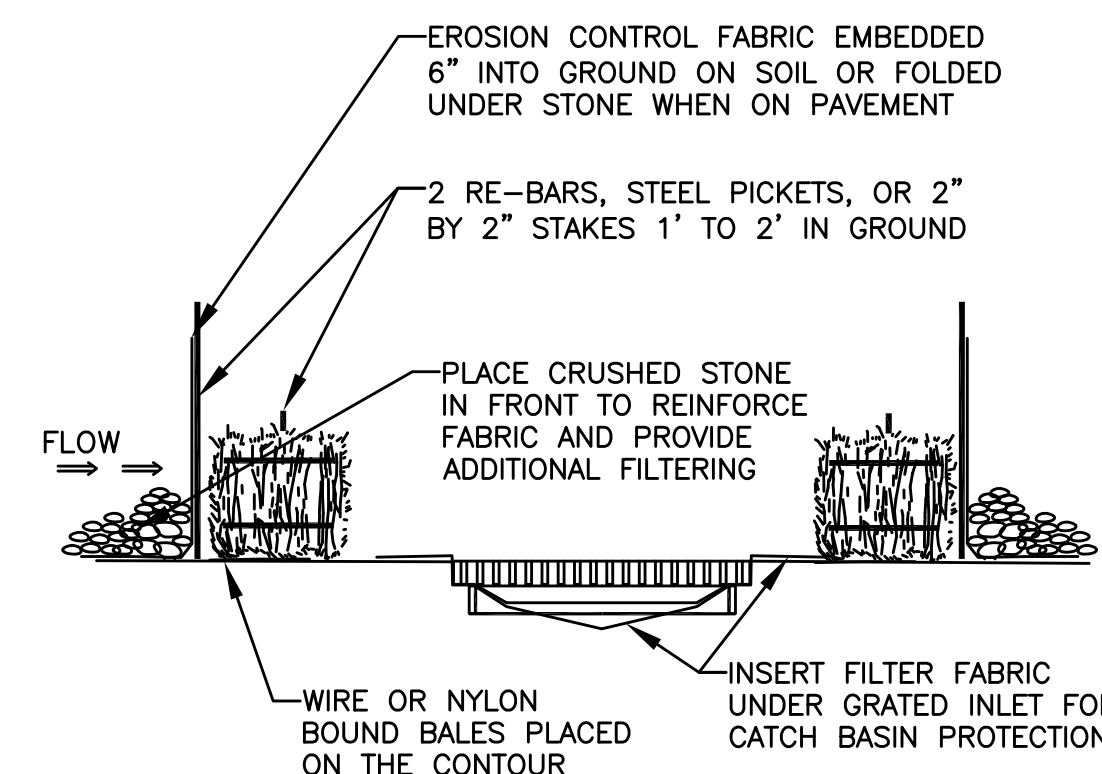
ELEVATION VIEW

RCP INLET CONTROL STRUCTURE

- NOTES**
1. MANHOLE SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE MA STANDARD SPECIFICATIONS
  2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LF. MINIMUM
  3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LF. (BOTH WAYS)
  4. ONE POUR MONOLITHIC BASE SECTION.
  5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED
  6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT



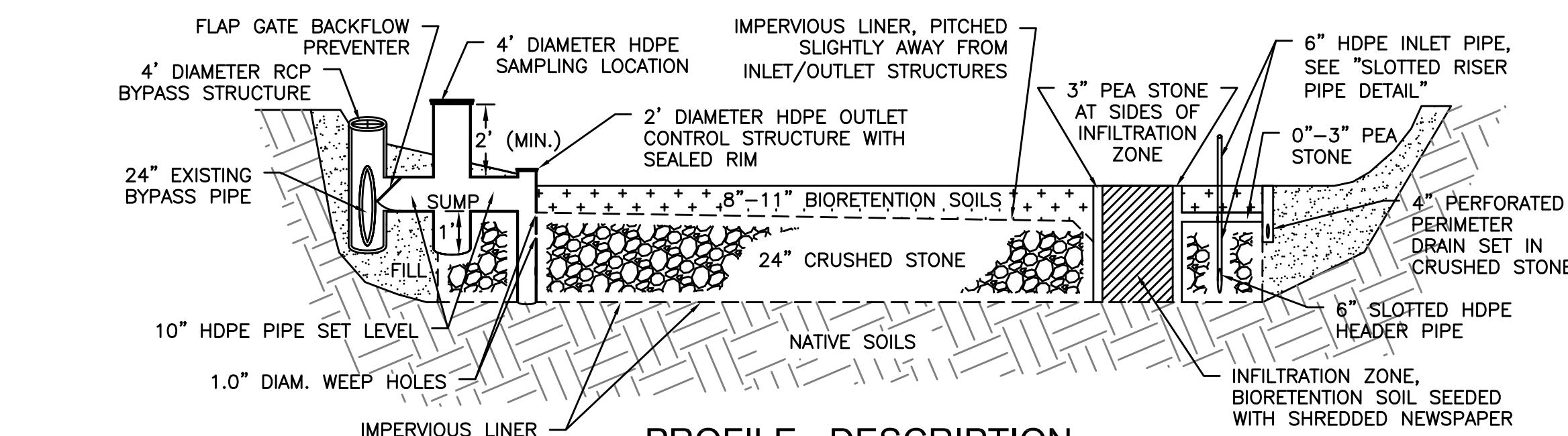
PLAN VIEW



PROFILE VIEW

- NOTES**
1. SILT FENCE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 6"
  2. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED

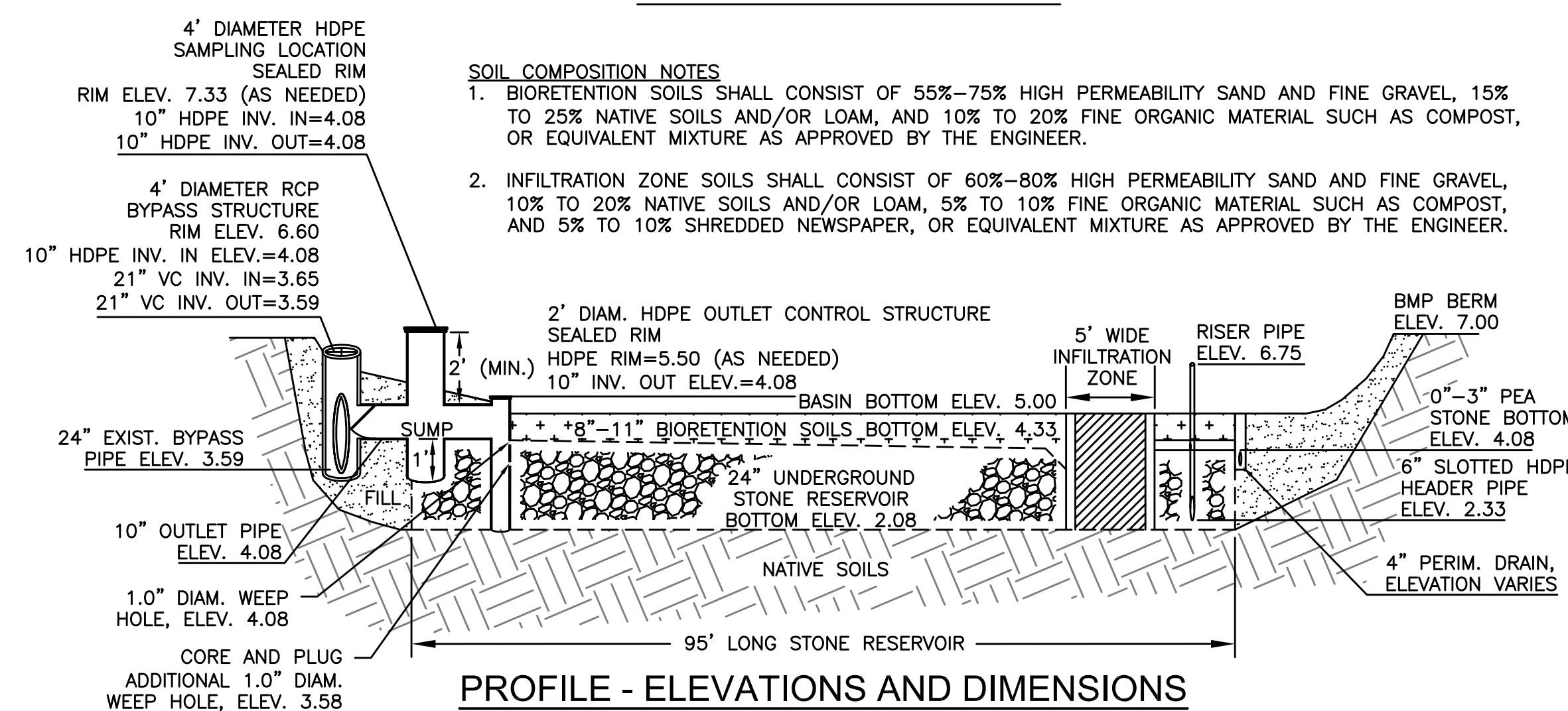
CATCH BASIN EROSION CONTROL



PROFILE - DESCRIPTION

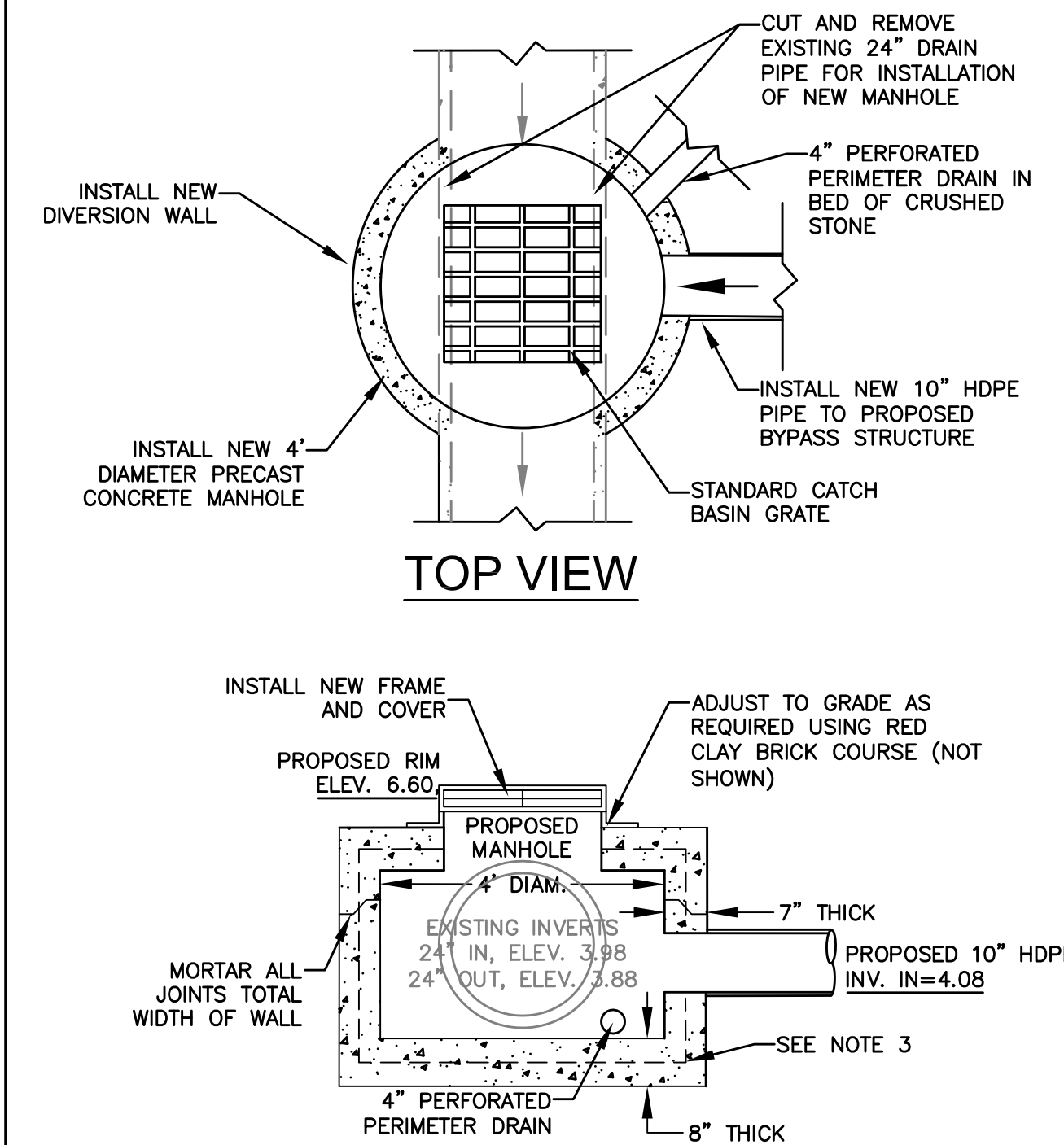
**SOIL COMPOSITION NOTES**

1. BIORETENTION SOILS SHALL CONSIST OF 55%-75% HIGH PERMEABILITY SAND AND FINE GRAVEL, 15% TO 25% NATIVE SOILS AND/OR LOAM, AND 10% TO 20% FINE ORGANIC MATERIAL SUCH AS COMPOST, OR EQUIVALENT MIXTURE AS APPROVED BY THE ENGINEER.
2. INFILTRATION ZONE SOILS SHALL CONSIST OF 60%-80% HIGH PERMEABILITY SAND AND FINE GRAVEL, 10% TO 20% NATIVE SOILS AND/OR LOAM, 5% TO 10% FINE ORGANIC MATERIAL SUCH AS COMPOST, AND 5% TO 10% SHREDDED NEWSPAPER, OR EQUIVALENT MIXTURE AS APPROVED BY THE ENGINEER.

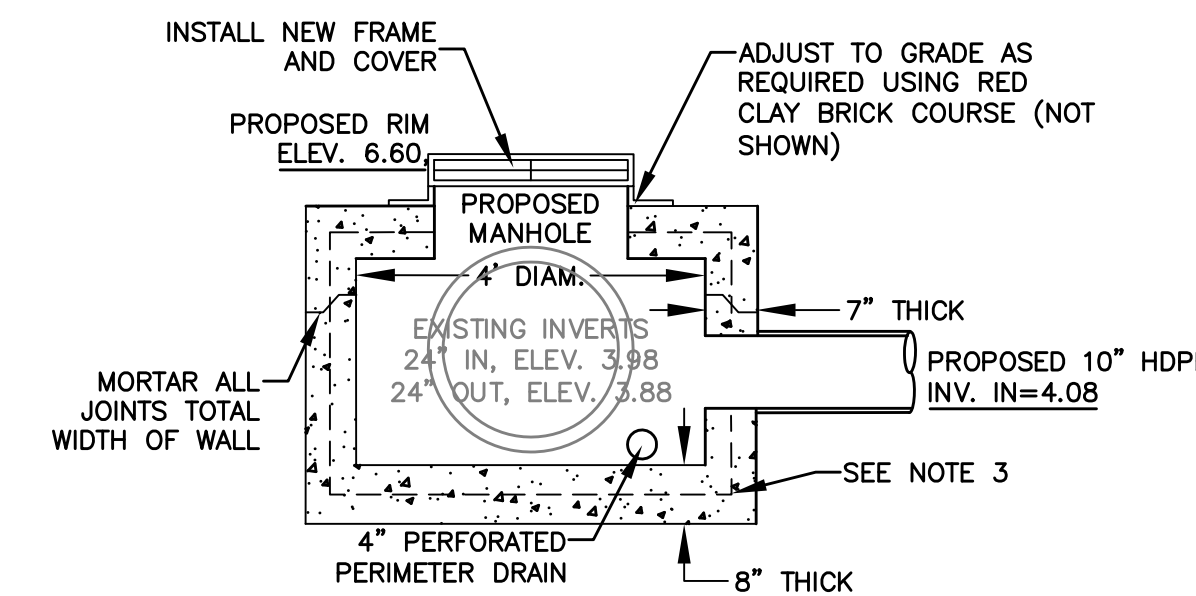


PROFILE - ELEVATIONS AND DIMENSIONS

STORMWATER BMP DETAILS

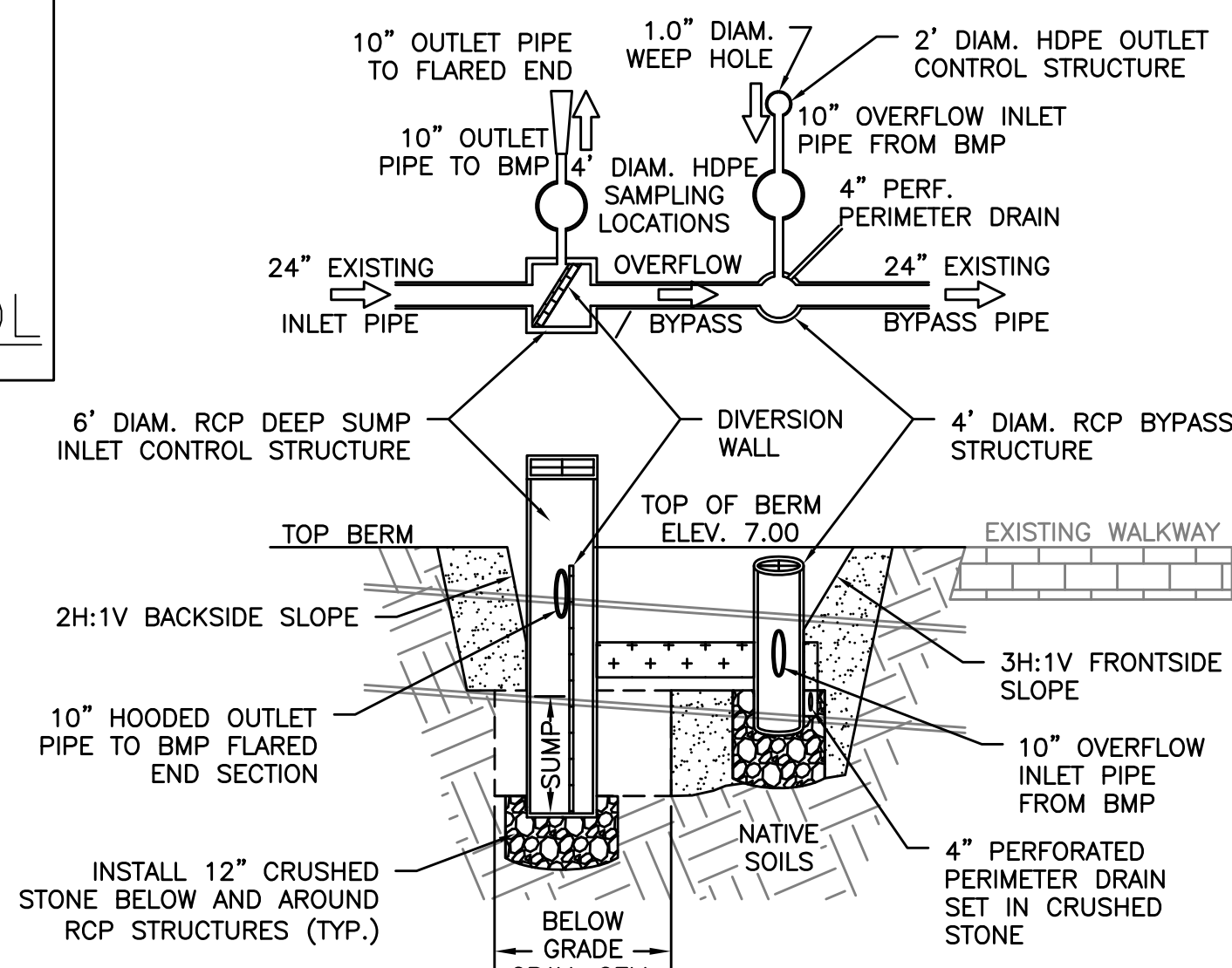


TOP VIEW

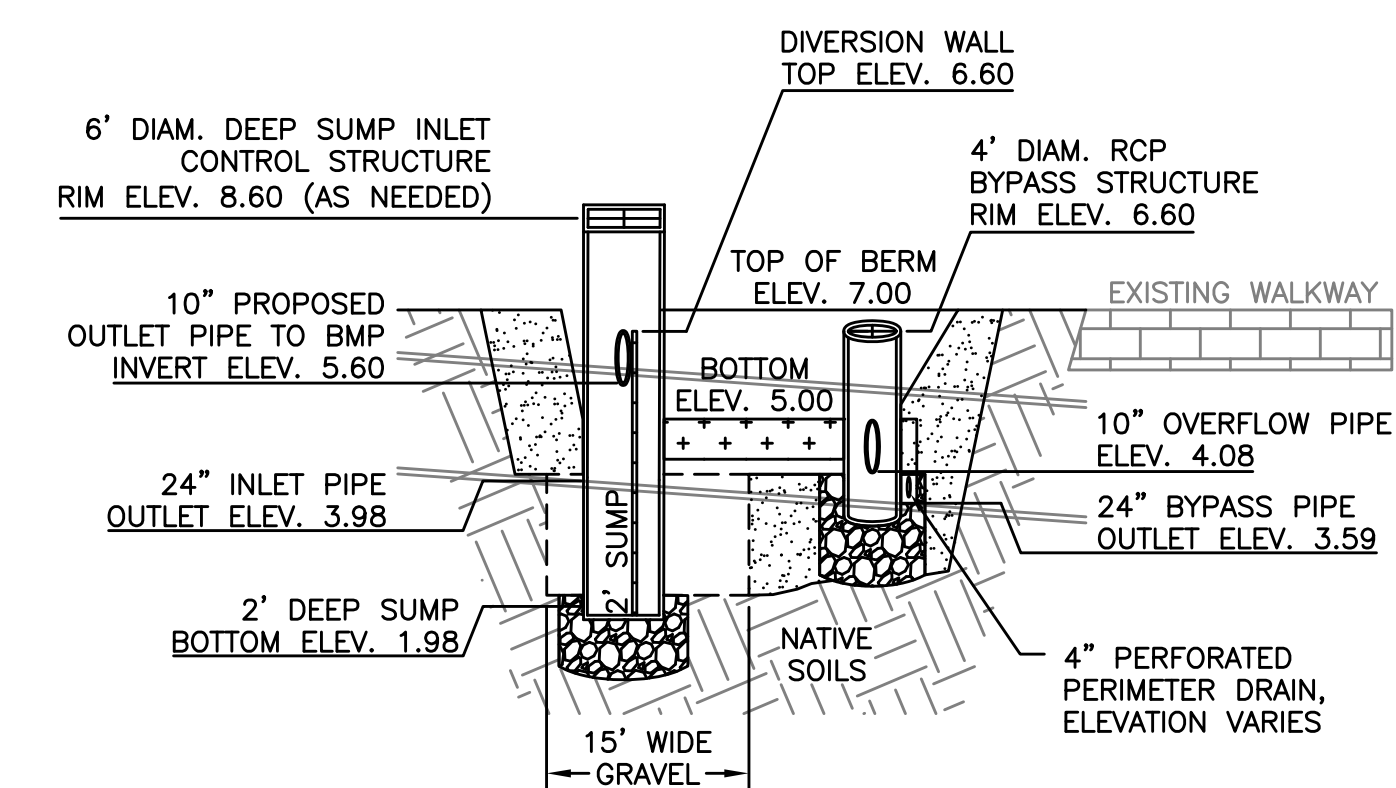


ELEVATION VIEW

RCP BYPASS STRUCTURE



CROSS-SECTION A-A - DESCRIPTION



CROSS-SECTION A-A - ELEVATIONS AND DIMENSIONS

**General Notes**

1. THE LOCATION OF UNDERGROUND UTILITIES HAS NOT BEEN VERIFIED OR INSPECTED. THE CONTRACTOR, PRIOR TO COMMENCEMENT OF CONSTRUCTION, SHALL VERIFY THE LOCATION OF ALL UTILITIES AND CONTACT "DIG-SAFE" AT 1-888-344-7233.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT ANY DAMAGE TO ADJACENT PROPERTIES. ALL AREAS WHICH ARE AFFECTED BY THE CONTRACTOR'S OPERATIONS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO THE OWNER.
3. ANY CHANGE IN FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER TO INSURE THAT ANY MODIFICATIONS TO THE ORIGINAL DESIGN ARE PROPER AND ADEQUATE TO SERVE THE PROJECT'S NEEDS AND COMPLY WITH THE APPLICABLE STANDARDS AND REGULATIONS.
4. CONTRACTOR SHALL IMMEDIATELY REPAIR OR FILL ANY POTHoles THAT OCCUR DUE TO CONSTRUCTION.
5. CONTRACTOR SHALL REPAIR ALL PAVING OR BRICKWORK ON SITE DAMAGED OR REMOVED DURING CONSTRUCTION.
6. REMOVE ALL TEMPORARY EROSION CONTROLS FROM THE SITE AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES.
7. STORMWATER SHALL NOT BE DIRECTED INTO THE BASIN UNTIL ALL PLANTINGS ARE SUITABLY ESTABLISHED. CONTRACTOR SHALL EITHER TIE INTO THE EXISTING CATCH BASIN LAST OR INSTALL A REMOVAL PLUG.

5	As-Builts	11/15
4	100% Design for Const.	04/15
3	90% Design	03/15
2	60% Design	02/15
1	Conceptual	01/15
No.	Revision/Issue	Date

**WaterVision, LLC**  
481 GREAT ROAD, SUITE 3  
ACTON, MA 01720

**COMPREHENSIVE ENVIRONMENTAL INCORPORATED**  
21 DEPOT STREET  
MERRIMACK, NH 03054

EPA Green Infrastructure  
Education and Outreach Project

**GATEWAY MARINA BMP,  
GRAVEL BIORETENTION CELL**

South Street and Pleasant  
Street, Barnstable MA

Project No.: 677-2  
Date: NOVEMBER 2015  
Drawn By: NC  
Checked By: ML  
Horizontal Datum: NAD88  
Vertical Datum: NAVD88

Sheet  
**C-5**